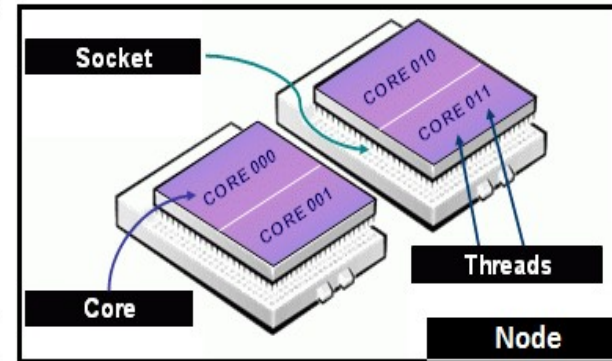
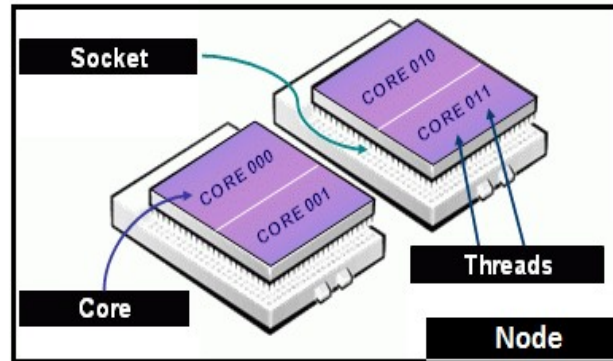
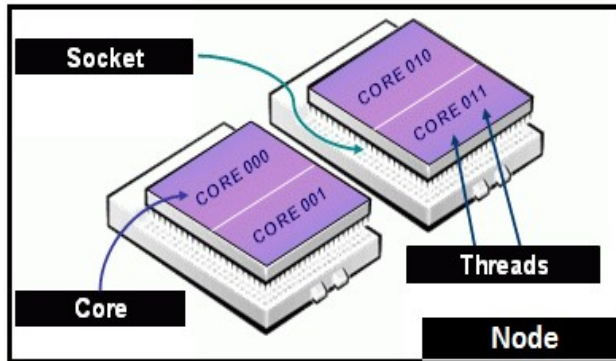


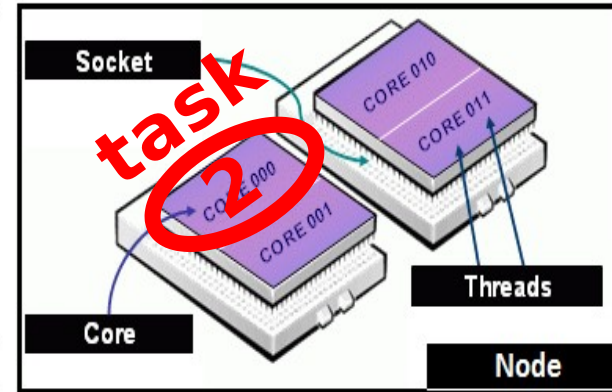
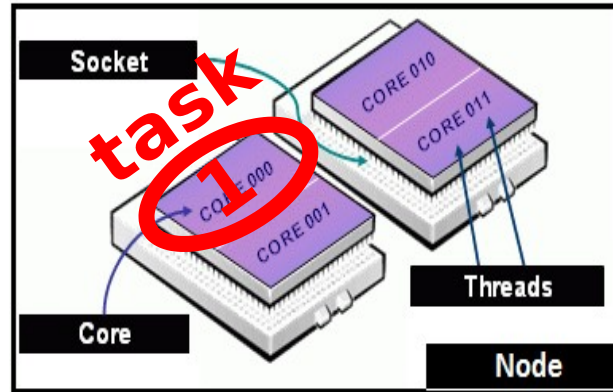
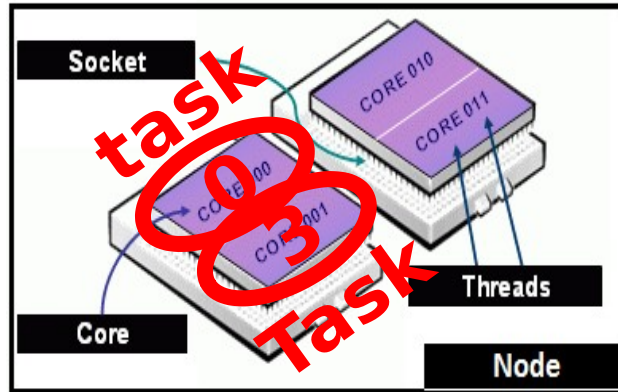
SLURM Process and Thread Binding

- **HSW node** : NUMA board
 - 2 sockets with 12 cores
 - each core 2 CPUs/HyperThreads
- Process Mapping : Distribution of the ranks on the nodes
srun --distribution=<block|cyclic[:block|cyclic]>
 - First Argument: block or cycle on consecutive nodes
 - Second Argument: block or cycle on consecutive sockets



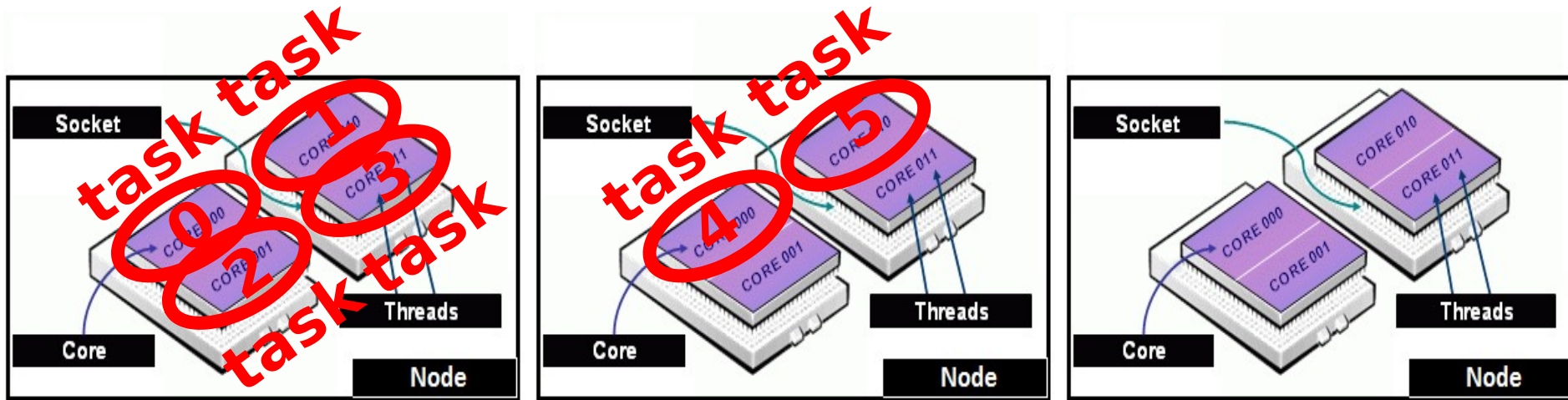
SLURM Process und Thread Binding

`srun --distribution=cyclic:block`



SLURM Process und Thread Binding

`srun --distribution=block:cyclic`



mistral default is block:block

SLURM Process und Thread Binding

- Binding ranks to cores, cpus, ...
srun --cpu_bind=<[verbose,]type>
 - bind to a single core: <type> = cores
 - bind to a single CPU/HyperThread: <type> = threads
 - custom bindings: <type> = map_cpu:<list>

